

JC60 U.S. PTO  
01/09/02

# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR § 1.53(b))

Attorney Docket No.	1875.0610000
First Inventor	Ramon A. Gomez
Title	Printed Bandpass Filter for a Double Conversion Tuner
Express Mail Label No.	

2006/10/16/040376

**APPLICATION ELEMENTS***See MPEP chapter 600 concerning utility patent application contents.*

- Fee Transmittal Form (e.g., PTO/SB/17)  
*(Submit an original, and a duplicate for fee processing)*
- Applicant claims small entity status.  
See 37 CFR 1.27.
- Specification [Total Pages 21]  
*(preferred arrangement set forth below)*
  - Descriptive title of the Invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (*if filed*)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
- Drawing(s) (35 U.S.C. 113) [Total Sheets 9]
- Oath or Declaration [Total Pages 5]
  - a.  Newly executed (original or copy)
  - b.  Copy from a prior application (37 CFR 1.63(d))  
*(for continuation/divisional with Box 18 completed)*
    - i.  **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR §§ 1.63(d)(2) and 1.33(b).
- Application Data Sheet. See 37 CFR 1.76.

**ADDRESS TO:** Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

7.  CD-ROM or CD-R in duplicate, large table or Computer Program (*Appendix*)
8. Nucleotide and/or Amino Acid Sequence Submission  
*(if applicable, all necessary)*
  - a.  Computer Readable Form (CRF)
  - b. Specification Sequence Listing on:
    - i.  CD-ROM or CD-R (2 copies); or
    - ii.  paper
  - c.  Statements verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

9.  Assignment Papers (cover sheet & document(s))
10.  37 CFR 3.73(b) Statement  Power of Attorney  
*(when there is an assignee)*
11.  English Translation Document (*if applicable*)
12.  Information Disclosure Statement (IDS)/PTO-1449  Copies of IDS Citations
13.  Preliminary Amendment
14.  Return Receipt Postcard (MPEP 503)  
*(Should be specifically itemized)*
15.  Certified Copy of Priority Document(s)  
*(if foreign priority is claimed)*
16.  Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17.  Other: Authorization under 37 C.F.R. § 1.136(a)(3)  
 Other: The name of the assignee is: Broadcom Corporation

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

Continuation     Divisional     Continuation-in-Part (CIP)  
*Prior application information:* Examiner \_\_\_\_\_ of prior application No: \_\_\_\_\_ / \_\_\_\_\_  
*Group/Art Unit:* \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**19. CORRESPONDENCE ADDRESS**

Customer Number or Bar Code Label  Correspondence address below

Customer No. 26111



(Insert Customer No. or Bar Code Label here)

NAME	STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. PATENT TRADEMARK OFFICE Attorneys at Law		
ADDRESS			
CITY	STATE	ZIP CODE	
COUNTRY	TELEPHONE	FAX	

NAME (Print/Type)	Jeffrey T. Helvey	Registration No. (Attorney/Agent)	44,757
SIGNATURE	<i>Jeff Helvey</i>		
Date	1/9/02		

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.  
SKG Rev 3/29/01 mac

sb05

# FEE TRANSMITTAL for FY 2002

*Patent fees are subject to annual revision.*

TOTAL AMOUNT OF PAYMENT (\$948.00)

Complete if Known

Application Number	To be assigned
Filing Date	January 9, 2002
First Named Inventor	Ramon A. Gomez
Examiner Name	To be assigned
Group Art Unit	To be assigned
Attorney Docket No.	1875.0610000

METHOD OF PAYMENT (check one)				FEE CALCULATION (continued)																																																																																																																																																																																																																																		
1. <input type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to: Deposit Account Number <b>19-0036</b> Deposit Account Name <b>Stern, Kessler, Goldstein &amp; Fox P.L.L.C.</b>  <input type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17 <input type="checkbox"/> Applicant claims small entity status See 37 CFR 1.27				3. ADDITIONAL FEES Large Entity      Small Entity <table border="1"> <thead> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Description</th> <th>Fee paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for ex parte reexamination</td><td></td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>113</td><td>1,840*</td><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>116</td><td>400</td><td>216</td><td>200</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>117</td><td>920</td><td>217</td><td>460</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>118</td><td>1,440</td><td>218</td><td>720</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>128</td><td>1,960</td><td>228</td><td>980</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>119</td><td>320</td><td>219</td><td>160</td><td>Notice of Appeal</td><td></td></tr> <tr><td>120</td><td>320</td><td>220</td><td>160</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>121</td><td>280</td><td>221</td><td>140</td><td>Request for oral hearing</td><td></td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive - unavoidable</td><td></td></tr> <tr><td>141</td><td>1,280</td><td>241</td><td>640</td><td>Petition to revive - unintentional</td><td></td></tr> <tr><td>142</td><td>1,280</td><td>242</td><td>640</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>143</td><td>460</td><td>243</td><td>230</td><td>Design issue fee</td><td></td></tr> <tr><td>144</td><td>620</td><td>244</td><td>310</td><td>Plant issue fee</td><td></td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>123</td><td>130</td><td>123</td><td>130</td><td>Petitions related to provisional applications</td><td></td></tr> <tr><td>126</td><td>180</td><td>126</td><td>180</td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>Total Claims 17</td><td>- 20** =</td><td>X</td><td>= 0.00</td><td></td><td>40.00</td></tr> <tr><td>Indep. Claims 5</td><td>- 3** =</td><td>2 X 84.00</td><td>= 168.00</td><td></td><td></td></tr> <tr><td>Multiple Dependent</td><td>0</td><td>= 0.00</td><td></td><td></td><td></td></tr> <tr> <td>Large Entity Fee Code (\$)</td> <td>Small Entity Fee Code (\$)</td> <td colspan="3">Fee Description</td> <td></td> </tr> <tr><td>103</td><td>18</td><td>203</td><td>9</td><td colspan="2">Claims in excess of 20</td></tr> <tr><td>102</td><td>84</td><td>202</td><td>42</td><td colspan="2">Independent claims in excess of 3</td></tr> <tr><td>104</td><td>280</td><td>204</td><td>140</td><td colspan="2">Multiple dependent claim</td></tr> <tr><td>108</td><td>84</td><td>209</td><td>42</td><td colspan="2">**Reissue independent claims over original patent</td></tr> <tr><td>110</td><td>18</td><td>210</td><td>9</td><td colspan="2">**Reissue claims in excess of 20 and over original patent</td></tr> <tr><td colspan="4">SUBTOTAL (2) (\$ 168.00)</td><td colspan="2">Other fee (specify):</td></tr> <tr><td colspan="4">** or number previously paid, if greater; For Reissues, see above</td><td colspan="2">Other fee (specify):</td></tr> <tr><td colspan="4"></td><td colspan="2">*Reduced by Basic Filing Fee Paid</td></tr> <tr><td colspan="4"></td><td colspan="2">SUBTOTAL (3) (\$ 40.00)</td></tr> </tbody> </table>					Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee paid	105	130	205	65	Surcharge - late filing fee or oath		127	50	227	25	Surcharge - late provisional filing fee or cover sheet		139	130	139	130	Non-English specification		147	2,520	147	2,520	For filing a request for ex parte reexamination		112	920*	112	920*	Requesting publication of SIR prior to Examiner action		113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action		115	110	215	55	Extension for reply within first month		116	400	216	200	Extension for reply within second month		117	920	217	460	Extension for reply within third month		118	1,440	218	720	Extension for reply within fourth month		128	1,960	228	980	Extension for reply within fifth month		119	320	219	160	Notice of Appeal		120	320	220	160	Filing a brief in support of an appeal		121	280	221	140	Request for oral hearing		138	1,510	138	1,510	Petition to institute a public use proceeding		140	110	240	55	Petition to revive - unavoidable		141	1,280	241	640	Petition to revive - unintentional		142	1,280	242	640	Utility issue fee (or reissue)		143	460	243	230	Design issue fee		144	620	244	310	Plant issue fee		122	130	122	130	Petitions to the Commissioner		123	130	123	130	Petitions related to provisional applications		126	180	126	180	Submission of Information Disclosure Stmt		Total Claims 17	- 20** =	X	= 0.00		40.00	Indep. Claims 5	- 3** =	2 X 84.00	= 168.00			Multiple Dependent	0	= 0.00				Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description				103	18	203	9	Claims in excess of 20		102	84	202	42	Independent claims in excess of 3		104	280	204	140	Multiple dependent claim		108	84	209	42	**Reissue independent claims over original patent		110	18	210	9	**Reissue claims in excess of 20 and over original patent		SUBTOTAL (2) (\$ 168.00)				Other fee (specify):		** or number previously paid, if greater; For Reissues, see above				Other fee (specify):						*Reduced by Basic Filing Fee Paid						SUBTOTAL (3) (\$ 40.00)	
Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee paid																																																																																																																																																																																																																																	
105	130	205	65	Surcharge - late filing fee or oath																																																																																																																																																																																																																																		
127	50	227	25	Surcharge - late provisional filing fee or cover sheet																																																																																																																																																																																																																																		
139	130	139	130	Non-English specification																																																																																																																																																																																																																																		
147	2,520	147	2,520	For filing a request for ex parte reexamination																																																																																																																																																																																																																																		
112	920*	112	920*	Requesting publication of SIR prior to Examiner action																																																																																																																																																																																																																																		
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action																																																																																																																																																																																																																																		
115	110	215	55	Extension for reply within first month																																																																																																																																																																																																																																		
116	400	216	200	Extension for reply within second month																																																																																																																																																																																																																																		
117	920	217	460	Extension for reply within third month																																																																																																																																																																																																																																		
118	1,440	218	720	Extension for reply within fourth month																																																																																																																																																																																																																																		
128	1,960	228	980	Extension for reply within fifth month																																																																																																																																																																																																																																		
119	320	219	160	Notice of Appeal																																																																																																																																																																																																																																		
120	320	220	160	Filing a brief in support of an appeal																																																																																																																																																																																																																																		
121	280	221	140	Request for oral hearing																																																																																																																																																																																																																																		
138	1,510	138	1,510	Petition to institute a public use proceeding																																																																																																																																																																																																																																		
140	110	240	55	Petition to revive - unavoidable																																																																																																																																																																																																																																		
141	1,280	241	640	Petition to revive - unintentional																																																																																																																																																																																																																																		
142	1,280	242	640	Utility issue fee (or reissue)																																																																																																																																																																																																																																		
143	460	243	230	Design issue fee																																																																																																																																																																																																																																		
144	620	244	310	Plant issue fee																																																																																																																																																																																																																																		
122	130	122	130	Petitions to the Commissioner																																																																																																																																																																																																																																		
123	130	123	130	Petitions related to provisional applications																																																																																																																																																																																																																																		
126	180	126	180	Submission of Information Disclosure Stmt																																																																																																																																																																																																																																		
Total Claims 17	- 20** =	X	= 0.00		40.00																																																																																																																																																																																																																																	
Indep. Claims 5	- 3** =	2 X 84.00	= 168.00																																																																																																																																																																																																																																			
Multiple Dependent	0	= 0.00																																																																																																																																																																																																																																				
Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description																																																																																																																																																																																																																																				
103	18	203	9	Claims in excess of 20																																																																																																																																																																																																																																		
102	84	202	42	Independent claims in excess of 3																																																																																																																																																																																																																																		
104	280	204	140	Multiple dependent claim																																																																																																																																																																																																																																		
108	84	209	42	**Reissue independent claims over original patent																																																																																																																																																																																																																																		
110	18	210	9	**Reissue claims in excess of 20 and over original patent																																																																																																																																																																																																																																		
SUBTOTAL (2) (\$ 168.00)				Other fee (specify):																																																																																																																																																																																																																																		
** or number previously paid, if greater; For Reissues, see above				Other fee (specify):																																																																																																																																																																																																																																		
				*Reduced by Basic Filing Fee Paid																																																																																																																																																																																																																																		
				SUBTOTAL (3) (\$ 40.00)																																																																																																																																																																																																																																		

SUBMITTED BY			Complete (if applicable)		
Name (Print/Type)	Jeffrey T. Helvey	Registration No. (Attorney/Agent)	44,757	Telephone	202-371-2600
Signature	<i>Jeff T. Helvey</i>			Date	1/9/02

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

JC699 U.S. PTO  
20/6/02

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

ATTORNEYS AT LAW

1100 NEW YORK AVENUE, N.W. • WASHINGTON, D.C. 20005-3934

PHONE: (202) 371-2600 • FACSIMILE: (202) 371-2540 • www.skgf.com

J1011 U.S. PTO  
01/06/02

ROBERT GREENE STERNE  
EDWARD J. KESSLER  
JORGE A. GOLOSTEIN  
SAMUEL L. FOX\*\*  
DAVID K.S. CORNWELL  
ROBERT W. EDMOND  
TRACY-GENE G. DURKIN  
MICHELE A. CIMBALA  
MICHAEL B. RAY  
ROBERT E. SOKOHL  
ERIC K. STEFFE  
MICHAEL O. LEE  
STEVEN R. LUDWIG

JOHN M. COVERT  
LINDA E. ALCORN  
ROBERT C. MILLONIG  
MICHAEL V. MESSINGER  
JUDITH U. KIM  
TIMOTHY J. SHEA, JR.  
PATRICK E. GARRETT  
JEFFREY T. HELVEY\*  
HEIDI L. KRAUS  
JEFFREY R. KURIN  
PATRICK D. O'BRIEN  
LAWRENCE B. BUGAIISKY  
CRYSTAL D. SAYLES

EDWARD W. YEE  
ALBERT L. FERRO\*  
DONALD R. BANOWITZ  
PETER A. JACKMAN  
MOLLY A. McCALL  
TERESA U. MEOLER  
JEFFREY S. WEAVER  
KENORICK P. PATTERSON  
DONALD J. FEATHERSTONE  
VINCENT L. CAPUANO  
JOHN A. HARROUN\*  
ALBERT J. FASULO II\*  
ELOORA ELLISON FLOYD\*

W. RUSSELL SWINNELL  
THOMAS C. FIALA  
BRIAN J. DEL BUONO\*  
VIRGIL L. BEASTON\*  
RYAN J. STAMPER\*  
REGINALD D. LUCAS\*  
THEODORE A. WOOD  
ELIZABETH J. HAANES  
BRUCE E. CHALKER  
JOSEPH S. OSTROFF  
KAREN R. MARKOWICZ\*\*  
SUZANNE E. ZISKA\*\*  
ANDREA J. KAMAGE\*

NANCY J. LEITH\*\*  
JOSEPH M. CONRAD, III\*\*  
DOUGLAS M. WILSON\*\*  
ANN E. SUMMERFIELD\*\*  
CYNTHIA M. BOUCHEZ\*\*  
HELENE C. CARLSON\*\*  
GABY L. LONGSWORTH\*\*  
DUSTIN T. JOHNSON\*\*  
MATTHEW J. DOWD\*\*  
AARON L. SCHWARTZ\*\*

\*LIMITED TO MATTERS  
AND PROCEEDINGS BEFORE  
FEDERAL COURTS & AGENCIES  
\*\*REGISTERED PATENT AGENT  
\*\*\*SENIOR COUNSEL

January 9, 2002

WRITER'S DIRECT NUMBER:

(202) 371-2675

INTERNET ADDRESS:

JHELVEY@SKGF.COM

O I P E  
JAN 9 2002  
PATENT & TRADEMARK OFFICE  
Commissioner for Patents  
Washington, D.C. 20231

Box Patent Application

Re: U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)  
Appl. No. (*To be assigned*); Filed: HEREWITH  
For: **Printed Bandpass Filter for a Double Conversion Tuner**  
Inventors: Gomez *et al.*  
Our Ref: 1875.0610000

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

1. PTO Fee Transmittal (Form PTO/SB/17) (*in duplicate*);
2. PTO Utility Patent Application Transmittal (Form PTO/SB/05);
3. U.S. Utility Patent Application entitled:

**Printed Bandpass Filter for a Double Conversion Tuner**

and naming as inventors:

Ramon A. Gomez  
Lawrence M. Burns  
Sung-Hsien Chang  
Carl W. Pobanz

Commissioner for Patents

January 9, 2002

Page 2

the application consisting of:

- a. A specification containing:
    - i. 16 pages of description prior to the claims;
    - ii. 4 pages of claims (17 claims);
    - iii. a one (1) page abstract;
  - b. 9 sheets of drawings: (Figures 1, 2, 3A-3C, 4A-4B, 5, and 6);
  - c. An original executed Declaration; and
  - d. An Application Data Sheet;
4. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3) (*in duplicate*);
  5. Recordation Form Cover Sheet;
  6. An original executed Assignment to **Broadcom Corporation**, recordation of which is hereby respectfully requested;
  7. Two (2) return postcards; and
  8. Our check no. 33779 for \$948.00 to cover:  
  
\$740.00 Filing fee for patent application;  
\$40.00 Assignment recordation fee; and  
\$168.00 Fee for excess claims.

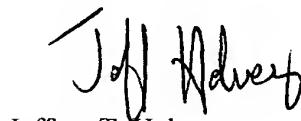
20001070 - EXCEDED 100000

Commissioner for Patents  
January 9, 2002  
Page 3

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036. A duplicate copy of this letter is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Jeffrey T. Helvey  
Attorney for Applicants  
Registration No. 44,757

JTH/DMW:dms  
Enclosures

P:\USERS\JHELVY\RAV\Byz\documents\jhelv\125\01\2000\pls\pls for reapp filing  
SACGP Rev. 11/19/01.m

2000 FEB 12 PM 10:25

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

J10011 U.S. S. PRO  
10/04/03 76  
01/09/02

In re application of:  
Gomez *et al.*  
Appl. No. *To be assigned*  
Filed: January 9, 2002  
For: **Printed Bandpass Filter for a  
Double Conversion Tuner**

Confirmation No. *To be assigned*  
Art Unit: *To be assigned*  
Examiner: *To be assigned*  
Atty. Docket: 1875.0610000

**Authorization To Treat A Reply As Incorporating An Extension Of  
Time Under 37 C.F.R. § 1.136(a)(3)**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

The U.S. Patent and Trademark Office is hereby authorized to treat any concurrent or future reply that requires a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. The U.S. Patent and Trademark Office is hereby authorized to charge all required extension of time fees to our Deposit Account No. 19-0036, if such fees are not otherwise provided for in such reply. A duplicate copy of this authorization is enclosed.

Respectfully submitted,  
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

  
Jeffrey T. Helvey

Attorney for Applicants  
Registration No. 44,757

Date: 1/9/02  
1100 New York Avenue, N.W.  
Washington, D.C. 20005-3934  
(202) 371-2600

PATENT AND TRADEMARK OFFICE  
1100 NEW YORK AVENUE, N.W.  
WASHINGTON, D.C. 20005-3934  
(202) 371-2600